

The diagram illustrates a process for producing syngas. It features three vertical vessels (1, 9, 10) connected in series. Vessel 1 is a tall column with a burner at the bottom (2) and a feed inlet (5) at the top. Vessels 9 and 10 are shorter columns with internal cross-sections (11, 12) and feed inlets (7, 8) at the top. The output of vessel 10 is a gas stream (16) labeled 'SYNGAS (PRODUCT)'. The process also includes a 'FEED MIXTURE (HYDROCARBON - STEAM)' inlet and an 'OXIDANT' inlet.

